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## Water Resources NSDI Node

# 1:750,000-scale static ground-water levels of Nevada

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- [Entity and Attribute Information](#)
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- [Metadata Reference Information](#)

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### Identification\_Information:

#### Citation:

##### Citation\_Information:

Originator: Susan G. Buto

Originator: Sienna Smith-Sager

Publication\_Date: 2006

#### Title:

1:750,000-scale static ground-water levels of Nevada

Geospatial\_Data\_Presentation\_Form: vector digital data

Online\_Linkage: [http://water.usgs.gov/lookup/getspatial?nv\\_dtw750nv\\_1](http://water.usgs.gov/lookup/getspatial?nv_dtw750nv_1)

#### Larger\_Work\_Citation:

##### Citation\_Information:

Originator: Rush, F.E

Publication\_Date: 1974

#### Title:

Static ground water levels of Nevada

Geospatial\_Data\_Presentation\_Form: map

#### Series\_Information:

Series\_Name: Nevada Department of Conservation and Natural Resources,  
Division of Water Resources Map

Issue\_Identification: not applicable

### Description:

#### Abstract:

This data set consists of static ground-water levels for the State of Nevada based on a 1974 ground-water map (Rush, 1974) published by the Nevada Department of Conservation and Natural Resources, Division of Water Resources, State Engineers Office. These data were digitized from the source as part of an effort to provide statewide information on water table and depth to ground water for Nevada.

#### Reference Cited

Rush, F.E., 1974, Static ground water levels of Nevada: Nevada Department of Conservation and Natural Resources, Division of Water Resources map, 1 sheet, scale 1:750,000.

#### Purpose:

This data set was created as part of a U.S. Geological Survey study, done in cooperation with the Nevada Division of Environmental Protection, to evaluate the susceptibility and vulnerability of ground water to anthropogenic contamination. The data set was created as part of an effort to provide statewide information on depth to ground water and water-table levels in Nevada. One variable that may control the susceptibility of ground water to contamination and determines contamination transport is depth to water (Lopes and others, 2006). This data set was used to develop raster surfaces of water-table altitude and depth to

ground water for Nevada. The intended uses of this data set include, but are not limited to, natural resource modeling, mapping, and visualization applications. Reference Cited Lopes, T.J., Buto, S.G., Smith, J.L., and Welborn, T.L., 2006, Water-table levels and gradients, Nevada, 1947-2004: U.S. Geological Survey Scientific Investigations Report 2006-5100, 27 p.

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1974

*Currentness\_Reference:*

publication date

*Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* None planned

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -120.111616

*East\_Bounding\_Coordinate:* -113.822423

*North\_Bounding\_Coordinate:* 42.004682

*South\_Bounding\_Coordinate:* 35.019184

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* none

*Theme\_Keyword:* Static ground-water levels

*Theme\_Keyword:* Depth to ground water

*Theme\_Keyword:* inlandWaters

*Place:*

*Place\_Keyword\_Thesaurus:* none

*Place\_Keyword:* Nevada

*Place\_Keyword:* Great Basin

*Access\_Constraints:* None.

*Use\_Constraints:*

Although this Federal Geographic Data Committee (FGDC) compliant metadata file is intended to document the data set in nonproprietary form, as well as ArcGIS format, this metadata file may include some ArcGIS-specific terminology.

These data are not intended to be used as a survey product and are for reference purposes only.

Acknowledgment of the U.S. Geological Survey and the Nevada Division of Environmental Protection would be appreciated in products derived from these data.

*Point\_of\_Contact:* (Warning: Although accurate at the time of production, this information may have become obsolete. See the [Metadata Reference Information](#) section for a current contact.)

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* U.S. Geological Survey

*Contact\_Position:* Public Information Assistant

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:*

333 W. Nye Lane

*City:* Carson City

*State\_or\_Province:* NV

*Postal\_Code:* 89706

*Country:* USA

*Contact\_Voice\_Telephone:* (775) 887-7600

*Contact\_Facsimile\_Telephone:* (775) 887-7629

*Contact\_Electronic\_Mail\_Address:* [GS-W-NVpublic-info@usgs.gov](mailto:GS-W-NVpublic-info@usgs.gov)

*Data\_Set\_Credit:*

Compilation of this data set and the associated metadata was done in cooperation with the Nevada Division of Environmental Protection.

Technical review of this data set and metadata was provided by Douglas O. Shipley and Toby L.

Welborn of the U.S. Geological Survey.

*Native\_Data\_Set\_Environment:*

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 9.0.0.580

*Cross\_Reference:*

*Citation\_Information:*

*Originator:* Douglas K. Maurer

*Originator:* Susan G. Buto

*Publication\_Date:* 2006

*Title:*

Depth to ground water contours of hydrographic area 153, Diamond Valley, Nevada

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* [http://water.usgs.gov/lookup/getspatial?sir2006-5100\\_dtwha153\\_l](http://water.usgs.gov/lookup/getspatial?sir2006-5100_dtwha153_l)

*Cross\_Reference:*

*Citation\_Information:*

*Originator:* Susan G. Buto

*Originator:* David M. Evetts

*Originator:* Sienna Smith-Sager

*Publication\_Date:* 2006

*Title:*

Water-table contours of Nevada

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* [http://water.usgs.gov/lookup/getspatial?sir2006-5100\\_wanv\\_l](http://water.usgs.gov/lookup/getspatial?sir2006-5100_wanv_l)

*Cross\_Reference:*

*Citation\_Information:*

*Originator:* J. LaRue Smith

*Originator:* Toby L. Welborn

*Publication\_Date:* 2006

*Title:*

Water-table altitude of Nevada

*Geospatial\_Data\_Presentation\_Form:* raster digital data

*Online\_Linkage:* [http://water.usgs.gov/lookup/getspatial?sir2006-5100\\_wanv\\_g](http://water.usgs.gov/lookup/getspatial?sir2006-5100_wanv_g)

*Cross\_Reference:*

*Citation\_Information:*

*Originator:* J. LaRue Smith

*Originator:* Toby L. Welborn

*Publication\_Date:* 2006

*Title:*

Depth to ground water of Nevada

*Geospatial\_Data\_Presentation\_Form:* raster digital data

*Online\_Linkage:* [http://water.usgs.gov/lookup/getspatial?sir2006-5100\\_dtwnv\\_g](http://water.usgs.gov/lookup/getspatial?sir2006-5100_dtwnv_g)

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

All attempts were made to compare 100 percent of the digital spatial data to the original source map. Verification was done by visual and manual comparison, combined with on-screen review, of the source with hard copy plots. Corrections were made until two comparisons determined 100 percent of the digital spatial data matched the original source map.

*Logical\_Consistency\_Report:*

The logical consistency topologically is clean. Chain-node topology is present. Using ArcGIS Workstation commands and routines all arcs were checked for node errors, overshoots, undershoots, dangles, intersections, and duplicate features.

*Completeness\_Report:*

Complete at 1:750,000-scale for Nevada.

*Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:*

Errors resulting from the quality of the source map, the automation process, and the scale resolution can impact the accuracy of the data. The errors resulting from the quality of the source map and the automation process are unknown. The inherent error of a 1:750,000-scale map is approximately 320 meters according to the National Map Accuracy Standards of 1947.

*Quantitative\_Horizontal\_Positional\_Accuracy\_Assessment:*

*Horizontal\_Positional\_Accuracy\_Value:* 350 meters

*Horizontal\_Positional\_Accuracy\_Explanation:*

The horizontal positional accuracy was verified by visual and manual comparison as described in the Horizontal\_Positional\_Accuracy\_Report and the Process\_Steps and matches the positional accuracy of the original source map. The horizontal positional error is deductively estimated at 350 meters.

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* F.E. Rush

*Publication\_Date:* 1974

*Title:*

Static ground water levels of Nevada

*Geospatial\_Data\_Presentation\_Form:* map

*Series\_Information:*

*Series\_Name:* Nevada Department of Conservation and Natural Resources,  
Division of Water Resources map

*Issue\_Identification:* Not applicable

*Publication\_Information:*

*Publication\_Place:* Carson City, NV

*Publisher:* Nevada Department of Conservation and Natural Resources, Division  
of Water Resources

*Source\_Scale\_Denominator:* 750,000

*Type\_of\_Source\_Media:* paper

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1974

*Source\_Currentness\_Reference:*

publication date

*Source\_Citation\_Abbreviation:*

water-level map

*Source\_Contribution:*

spatial and attribute information

*Process\_Step:*

*Process\_Description:*

The water-level map was securely taped to a digitizing table and registered to the Lambert conformal conic projection with the parameters set for the Nevada State base map (central meridian = -117°, first standard parallel = 33°00'00", second standard parallel = 45°00'00") , North American Datum 1927 (NAD 27). The contours were digitized directly into the coordinate system using the ArcGIS ArcEdit module and commands. The maximum root mean square error during digitizing was 0.002.

*Source\_Used\_Citation\_Abbreviation:*

water-level map

*Process\_Date:* 200304 - 200306

*Process\_Step:*

*Process\_Description:*

1. 1:750,000-scale hard copy plots of the digitized water-level map were generated. Using a light table, these plots were visually and manually compared with the water-level map.

2. Corrections were made to the spatial data until two visual and manual comparisons, combined with on-screen review, determined there was no light between the original and digital lines and the attribute data matched the source map.

3. Polygon and line topology were built using the ArcGIS Workstation command CLEAN with the fuzzy tolerance = 0.001 and dangle length = 0.01.

4. The data set was projected from Lambert, NAD 27 to UTM, Zone 11, NAD 27 using the ArcGIS Workstation command PROJECT.

*Source\_Used\_Citation\_Abbreviation:*

water-level map

*Process\_Date:* 200308

*Process\_Step:*

*Process\_Description:*

1. The attribute DTW750NV\_L-ID was calculated to be a unique sequential integer equal to DTW750NV\_L#.

2. Line topology was built using the ArcGIS Workstation command Build.

3. Metadata were structured and validated using metadata tools, MP and CNS, developed by Peter Schweitzer, U.S. Geological Survey.

*Process\_Date:* 200411

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*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Complete chain

*Point\_and\_Vector\_Object\_Count:* 566

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Point

*Point\_and\_Vector\_Object\_Count:* 134

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Point

*Point\_and\_Vector\_Object\_Count:* 134

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*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Planar:*

*Grid\_Coordinate\_System:*

*Grid\_Coordinate\_System\_Name:* Universal Transverse Mercator

*Universal\_Transverse\_Mercator:*

*UTM\_Zone\_Number:* 11

*Transverse\_Mercator:*

*Scale\_Factor\_at\_Central\_Meridian:* 0.999600

*Longitude\_of\_Central\_Meridian:* -117.000000

*Latitude\_of\_Projection\_Origin:* 0.000000

*False\_Easting:* 500000.000000

*False\_Northing:* 0.000000

*Planar\_Coordinate\_Information:*

*Planar\_Coordinate\_Encoding\_Method:* coordinate pair

*Coordinate\_Representation:*

*Abcissa\_Resolution:* 0.005612

*Ordinate\_Resolution:* 0.005612

*Planar\_Distance\_Units:* meters

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1927

*Ellipsoid\_Name:* Clarke 1866

*Semi-major\_Axis:* 6378206.400000

*Denominator\_of\_Flattening\_Ratio:* 294.978698

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* dtw750nv\_l.aat

*Entity\_Type\_Definition:*

arc attribute table

*Entity\_Type\_Definition\_Source:*

ESRI

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:*

Internal feature number.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:*

Feature geometry.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* FNODE#

*Attribute\_Definition:*

Internal node number for the beginning of an arc (from-node).

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* TNODE#

*Attribute\_Definition:*

Internal node number for the end of an arc (to-node).

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* LPOLY#

*Attribute\_Definition:*

Internal node number for the left polygon.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* RPOLY#

*Attribute\_Definition:*

Internal node number for the right polygon.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* LENGTH

*Attribute\_Definition:*

Length of feature in internal units.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Positive real numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* DTW750NV\_L#

*Attribute\_Definition:*

Internal feature number.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* DTW750NV\_L-ID

*Attribute\_Definition:*

User-defined feature number.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers equal to the value of DTW750NV\_L#.

*Attribute:*

*Attribute\_Label:* DEPTH-FT

*Attribute\_Definition:*

The depth to ground water, in feet.

*Attribute\_Definition\_Source:*

water-level map

*Attribute\_Domain\_Values:*

*Range\_Domain:*

*Range\_Domain\_Minimum:* 10

*Range\_Domain\_Maximum:* 700

*Attribute\_Units\_of\_Measure:* Feet

*Attribute:*

*Attribute\_Label:* DEPTH-M

*Attribute\_Definition:*

The depth to ground water in meters. Calculated by multiplying DEPTH-FT by 0.3048.

*Attribute\_Definition\_Source:*

user-defined

*Attribute\_Domain\_Values:*

*Range\_Domain:*

*Range\_Domain\_Minimum:* 3.048

*Range\_Domain\_Maximum:* 213.36

*Attribute\_Units\_of\_Measure:* Meters

*Attribute:*

*Attribute\_Label:* CONFIDENCE

*Attribute\_Definition:*

The confidence level associated with the contour.

*Attribute\_Definition\_Source:*

water-level map

*Attribute\_Domain\_Values:**Enumerated\_Domain:**Enumerated\_Domain\_Value:* little supporting data*Enumerated\_Domain\_Value\_Definition:*

The contour location was estimated based on a small amount of data.

*Enumerated\_Domain\_Value\_Definition\_Source:*

water-level map

*Enumerated\_Domain:**Enumerated\_Domain\_Value:* inferred, very little data*Enumerated\_Domain\_Value\_Definition:*

The contour location is inferred and based on very little supporting data.

*Enumerated\_Domain\_Value\_Definition\_Source:*

water-level map

*Overview\_Description:**Entity\_and\_Attribute\_Overview:*

&gt;dtw750nv\_l.aat

&gt;

>COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME	INDEXED?
> 1	FNODE#	4	5	B	-	-	
> 5	TNODE#	4	5	B	-	-	
> 9	LPOLY#	4	5	B	-	-	
> 13	RPOLY#	4	5	B	-	-	
> 17	LENGTH	8	18	F	5	-	
> 25	DTW750NV_L#	4	5	B	-	-	
> 29	DTW750NV_L-ID	4	5	B	-	-	
> 33	DEPTH-FT	5	5	I	-	-	
> 38	DEPTH-M	4	8	F	3	-	
> 42	CONFIDENCE	30	30	C	-	-	

DEPTH-FT is the depth to ground water, in feet, as reported by Rush, 1974.

DEPTH-M is the depth to ground water, in meters, calculated by multiplying DEPTH-FT by 0.3048.

CONFIDENCE is the confidence level on the contour as reported by Rush, 1974.

*Entity\_and\_Attribute\_Detail\_Citation:*

provided above

[Back to Top](#)*Distribution\_Information:**Distributor:**Contact\_Information:**Contact\_Organization\_Primary:**Contact\_Organization:* U.S. Geological Survey*Contact\_Position:* Ask USGS -- Water Webserver Team*Contact\_Address:**Address\_Type:* mailing address*Address:*

445 National Center

*City:* Reston*State\_or\_Province:* VA*Postal\_Code:* 20192*Contact\_Voice\_Telephone:* 1-888-275-8747 (1-888-ASK-USGS)*Contact\_Electronic\_Mail\_Address:* [http://water.usgs.gov/user\\_feedback\\_form.html](http://water.usgs.gov/user_feedback_form.html)*Resource\_Description:* Downloadable Data*Distribution\_Liability:*

Although this data set has been used by the U.S. Geological Survey, U.S. Department of the Interior, no warranty expressed or implied is made by the U.S. Geological Survey as to the



accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the U.S. Geological Survey in the use of these data, software, or related materials.

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*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Format\_Name:* WinZipped ARCE

*Format\_Information\_Content:*

spatial and attribute information

*File-Decompression\_Technique:* WinZip

*Transfer\_Size:* 0.320

*Digital\_Transfer\_Option:*

*Online\_Option:*

*Computer\_Contact\_Information:*

*Network\_Address:*

*Network\_Resource\_Name:*

[http://water.usgs.gov/GIS/dsdl/nv\\_dtw750nv\\_1.e00.zip](http://water.usgs.gov/GIS/dsdl/nv_dtw750nv_1.e00.zip)

*Fees:* None. This data set is provided by USGS as a public service.

**How To Get the Data**

*Standard\_Order\_Process* describes the file formats that are available for downloading. One or more data downloads may be available.

For best results download files by right-click/save to disk in your browser. ([See guidance on file formats.](#))

**Save this file to a disk.**

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20060508

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* U.S. Geological Survey

*Contact\_Position:* Ask USGS -- Water Webserver Team

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:*

445 National Center

*City:* Reston

*State\_or\_Province:* VA

*Postal\_Code:* 20192

*Contact\_Voice\_Telephone:* 1-888-275-8747 (1-888-ASK-USGS)

*Contact\_Electronic\_Mail\_Address:* [http://answers.usgs.gov/cgi-bin/qsanswers?pemail=h2oteam&subject=GIS+Dataset+nv\\_dtw750nv\\_1](http://answers.usgs.gov/cgi-bin/qsanswers?pemail=h2oteam&subject=GIS+Dataset+nv_dtw750nv_1)

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

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Page Contact Information: [Webmaster](#)

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